

U. S. GEOLOGICAL SURVEY
 ANNUAL PEAK FLOW FREQUENCY ANALYSIS
 Following Bulletin 17-B Guidelines
 Program peakfq
 (Version 4.0, December, 2000)

Station - 05388460 DU CHARME CREEK AT EASTMAN, WI
 2002 MAR 13 09:02:59

I N P U T D A T A S U M M A R Y

Number of peaks in record	=	21
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	21
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.400
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	30.0
User supplied high outlier threshold	=	--
User supplied low outlier criterion	=	--
Plotting position parameter	=	0.00

***** NOTICE -- Preliminary machine computations. *****
 ***** User responsible for assessment and interpretation. *****

WCF133I-SYSTEMATIC PEAKS BELOW GAGE BASE WERE NOTED.	9	30.0	
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	371.9	
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		36.5	
**WCF199W-NUMBER OF PEAKS BELOW FLOOD BASE EXCEEDS 17B SPEC.	9	30.0	5
WCF002J-CALCS COMPLETED. RETURN CODE = 2			

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	30.0	0.5714	1.8430	0.3268	0.391
BULL.17B ESTIMATE	30.0	0.5714	1.8430	0.3268	0.018

ANNUAL FREQUENCY CURVE -- DISCHARGES AT SELECTED EXCEEDANCE PROBABILITIES

ANNUAL EXCEEDANCE PROBABILITY	BULL.17B ESTIMATE	SYSTEMATIC RECORD	'EXPECTED PROBABILITY' ESTIMATE	95-PCT CONFIDENCE LIMITS FOR BULL. 17B ESTIMATES	
				LOWER	UPPER
0.5000	69.5	66.3	69.5	52.5	91.9
0.2000	131.1	128.8	135.0	98.6	191.1
0.1000	183.0	187.5	193.8	133.1	289.4
0.0400	261.3	286.1	290.2	181.0	456.9
0.0200	329.1	380.6	382.0	219.9	616.8
0.0100	405.1	496.1	494.8	261.5	810.0
0.0050	490.1	636.8	634.4	306.2	1041.0
0.0020	617.6	869.6	872.2	370.2	1414.0
0.6667	1.50-year flood below base				
0.4292	79.5 (2.33-year flood)				

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I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1961	30.0		1972	145.0	
1962	105.0		1973	30.0	L
1963	30.0		1974	30.0	L
1964	175.0		1975	105.0	
1965	95.0		1976	30.0	L
1966	90.0		1977	30.0	L
1967	200.0		1978	415.0	
1968	90.0		1979	10.0	
1969	88.0		1980	18.0	
1970	50.0		1981	10.0	L
1971	80.0				

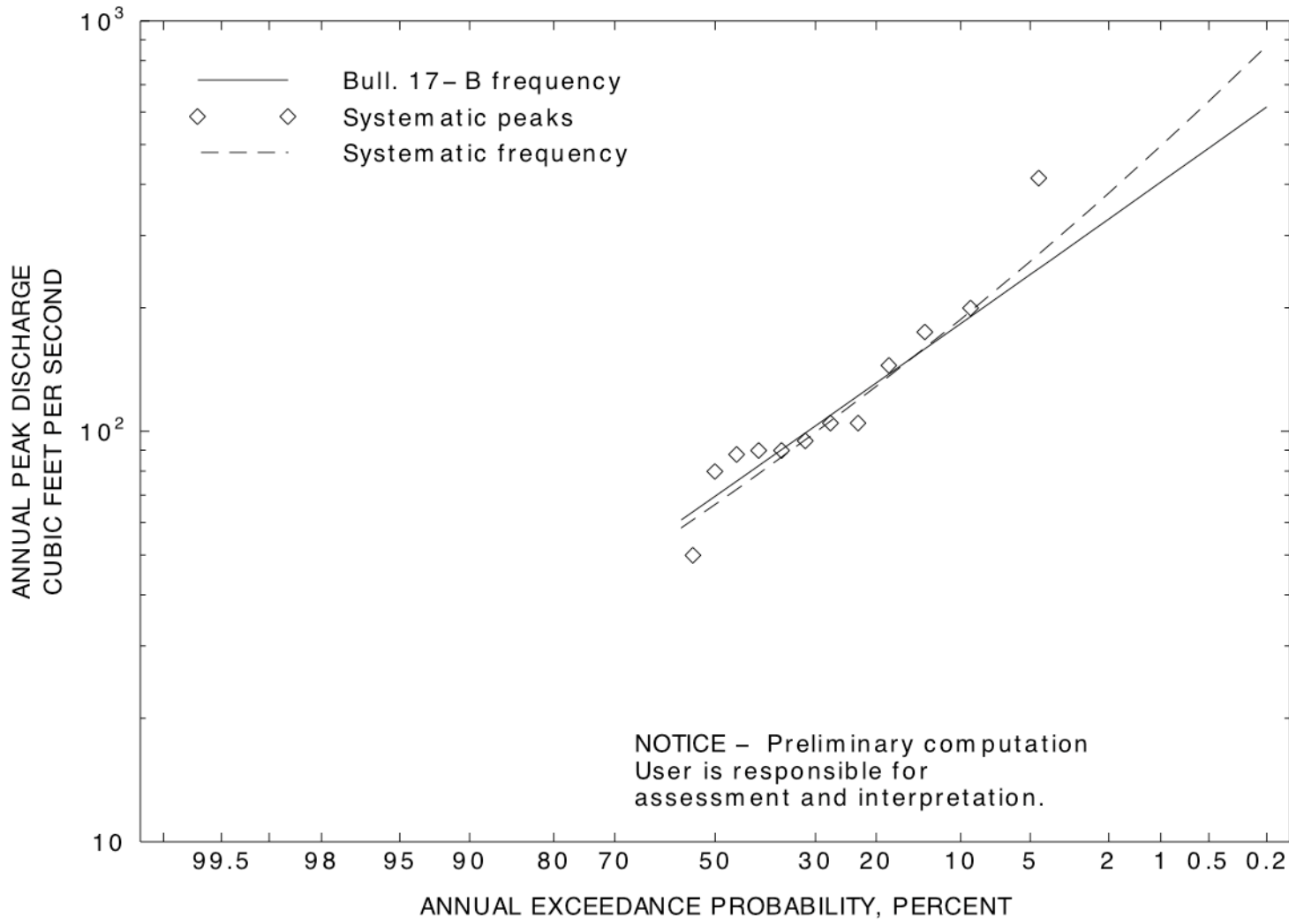
Explanation of peak discharge qualification codes

PEAKFQ CODE	WATSTORE CODE	DEFINITION
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1978	415.0	0.0455	0.0455
1967	200.0	0.0909	0.0909
1964	175.0	0.1364	0.1364
1972	145.0	0.1818	0.1818
1962	105.0	0.2273	0.2273
1975	105.0	0.2727	0.2727
1965	95.0	0.3182	0.3182
1966	90.0	0.3636	0.3636
1968	90.0	0.4091	0.4091
1969	88.0	0.4545	0.4545
1971	80.0	0.5000	0.5000
1970	50.0	0.5455	0.5455
1961	30.0	--	--
1963	30.0	--	--
1973	30.0	--	--
1974	30.0	--	--
1976	30.0	--	--
1977	30.0	--	--
1980	18.0	--	--
1979	10.0	--	--
1981	10.0	--	--



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